

In the claims:

8. (Amended) A regenerative thermal oxidizer for processing a gas, comprising:

a combustion zone;

a first heat exchange bed containing heat exchange media and in communication with said combustion zone;

a second heat exchange bed containing heat exchange media and in communication with said combustion zone;

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a rotatable switch valve for alternating the flow of said gas between said first and second heat exchange beds, said rotatable switch valve comprising a radial duct enclosed by an outer housing, and a ring seal in fluid communication with said radial duct, said ring seal having a bore adapted to allow gas flow to or from said radial duct and form a pressurized seal with said outer housing.

9. (Amended) The regenerative thermal oxidizer of claim 8, wherein said rotatable switch valve further comprises a first valve port in fluid communication with said first heat exchange bed and a second valve port separate from said first valve port and in fluid communication with said second heat exchange bed, said regenerative thermal oxidizer further comprising a cold face plenum comprising at least one baffle for dividing said first and second valve ports into a plurality of chambers.

10. (Amended) The regenerative thermal oxidizer of claim 9, wherein each of said chambers is congruent with respect to one another.

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12. (Amended) The regenerative thermal oxidizer of claim 8,

slip further comprising means for causing gas to flow into said radial duct, and between said ring seal and said outer housing.